

Claims

- [c1] What is claimed is:
- A portable, highly maneuverable, water purification system, comprising:
- a mobile cabinet having a water purification system including:
- a water conduit;
- a plurality of filters connected by said conduit;
- at least one ultraviolet (UV) light source located within the cabinet downstream from the filters connected to said conduit;
- solar power source; and
- pump connected to said conduit and said solar power source.
- [c2] The system of claim 1, wherein the plurality of filters includes at least one screen filter for screening solid larger particulates in the water.
- [c3] The system of claim 2, wherein the plurality of filters includes a carbon filter located downstream from the screen filter.
- [c4] The system of claim 1, further comprising:
- a supply hose; and
- a pre-strainer of the water to be purified located between the supply hose and an ingress.
- [c5] The system of claim 1, further comprising a battery power supply located within the cabinet.
- [c6] The system of claim 5, further comprising a pump, wherein power to the pump is supplied after power is supplied to the UV light.
- [c7] The system of claim 6, wherein the pump brings the water to be purified to at least approximately 40 psi of head pressure.
- [c8] The system of claim 5, further comprising a power receptacle for providing electrical power located outside the cabinet.
- [c9] The system of claim 5, further comprising a solar cell in electronic communication with the power supply.

- [c10] The system of claim 5, wherein the power supply is adaptable to electronic communication with an outside power source.
- [c11] The system of claim 5, further comprising a malfunction indicator for the UV light.
- [c12] The system of claim 1, further comprising:
wheels for rolling the system, and
a handle mechanism for directing the cabinet.
- [c13] The system of claim 1, wherein the interior of the cabinet is protected with a closeable mechanism.
- [c14] A portable, highly maneuverable apparatus for purifying water, comprising:
cabinet means for receiving water to be purified, including;
means for filtering the water located inside the cabinet means;
means for exposing the water to purifying radiation located within the cabinet downstream from the filters; and
pump means powered by solar power.
- [c15] The apparatus of claim 14, further comprising:
means for supplying water to the cabinet means; and
means for supplying power to means for supplying water located within the cabinet means.
- [c16] The apparatus of claim 15, further comprising means for supplying power to the means for exposing the water to purifying radiation.
- [c17] The apparatus of claim 15, further comprising a means for obtaining solar power for charging the means for supplying power.
- [c18] The apparatus of claim 14, further comprising wheels for rolling the system;
and
a handle mechanism for directing the cabinet.
- [c19] A method of purifying water within a portable, highly maneuverable cabinet system, comprising the steps of:

providing a portable, highly maneuverable cabinet for the purification of water;
filtering the water inside the cabinet with a series of filters;
exposing the water to at least one ultraviolet (UV) light source located within the
cabinet downstream from the filtering step; and
using solar energy to supply power.

[c20] The method of claim 19, wherein the cabinet includes a solar power supply and
battery.

[c21] The method of claim 20, wherein the cabinet is capable of operating as a
portable power source.